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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/919,925	08/02/2001	Takahiro Fukuhara	SON-2194	3992	
23353	7590 02/23/2005		EXAM	EXAMINER	
RADER FISHMAN & GRAUER PLLC			DANG,	DANG, DUY M	
LION BUILD	DING TREET N.W., SUITE 501		ART UNIT	PAPER NUMBER	
	ON, DC 20036		2621		
		•	DATE MAILED: 02/23/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	 .			
	09/919,925	FUKUHARA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Duy M Dang	2621				
The MAILING DATE of this communication ap	ppears on the cover sheet	vith the correspondence addres	s			
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may ply within the statutory minimum of the divill apply and will expire SIX (6) MO te, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication (35 U.S.C. § 133).	nication.			
Status						
1) Responsive to communication(s) filed on 06 (<u>October 2004</u> .					
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.					
3) Since this application is in condition for allows	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) 13 and 16 is/are wit 5) ⊠ Claim(s) 14 is/are allowed. 6) ⊠ Claim(s) 1,8,9 and 15 is/are rejected. 7) ⊠ Claim(s) 2-7 and 10-12 is/are objected to. 8) □ Claim(s) are subject to restriction and/	hdrawn from consideratio	n.				
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin 11.	cepted or b) objected to be drawing(s) be held in abeyon oction is required if the drawing.	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stag	ge			
Attachment(s)		·				
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No	o(s)/Mail Date Informal Patent Application (PTO-152))			
Paper No(s)/Mail Date	6) Other: _		,			

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DETAILED ACTION

- 1. Applicant's amendment filed 10/6/04 has been entered and made of record.
- 2. Applicant's election with traverse of Group I invention (Claims 1-12, and 14-15) filed 10/604 is acknowledged. Because Applicant (1)did not provide what ground the traversal is on and (2)failed to distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Therefore, the requirement is still deemed proper and is therefore made FINAL.
- 3. Claims 13 and 16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Group II invention, there being no allowable generic or linking claim. Applicant's amendment to officially cancel claims 13 and 16 in response to this communication is advised.
- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1, 8-9, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Taniguchi et al. [US Patent No. 6,067,383].

Regarding claim 1, Taniguchi teaches an image coding device [see figures 1 and 20] comprising:.

memory means for reading and storing predetermined image areas of input image data [see data storage element 602 of figure 20 and col. 25 lines 21-25];

a wavelet conversion section for performing wavelet conversion filtering on the image areas, in a horizontal or vertical direction as soon as the image data is stored in the memory means [see figure 1 which is a representative of a wavelet transform employing filtering image on horizontal or vertical direction]; and

the wavelet conversion section including fixed-type wavelet conversion means and integer type wavelet conversion means [see 5-3 tap filter employed in filters used in wavelet transform according to col. 25 lines 34-58. This interpretation is consistent with applicant's disclosed on page 15 lines 13-16 and page 18 lines 8-9].

Regarding claim 8, it is noted this claim is a method claim reciting the features called in claim 1 above. Thus, claim 8 is also rejected for the same reasons as set forth in claim 1 above.

Regarding claim 9, Taniguchi teaches an image decoding device [see decoding means shown in figure 39] comprising: fixed point type and integer type wavelet reverse conversion means [see filters 801 and 802 in figure 39 and detailed in figure 31]; and memory means for writing and keeping only a predetermined image area of a decoded image generated by reverse conversion [see memory 905 and 906 in figure 39].

Regarding claim 15, it is noted that this claim is a method claim reciting the features called for in claim 9. Thus, claim 15 is also rejected for the same reasons as set forth in claim 9 above.

- 6. Claims 2-7 and 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claim 14 is allowed

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8. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 2 and 10, the closest prior art [Taniguchi et al.] fails to teaches wherein the fixed point type wavelet conversion means comprises a bit shifter and a wavelet conversion and the integer type wavelet conversion means comprises only the wavelet converter. Dependent claims 3-5 and 11-12 are also allowable for the same reasons as above.

Regarding claim 6, the closest prior art [Taniguchi et al.] fails to teaches wherein the fixed point type wavelet is selected to perform reversible coding and the fixed point type wavelet conversion means is selected to perform irreversible coding.

Regarding claim 7, the closest prior art [Taniguchi et al.] fails to teaches wherein the fixed point type wavelet conversion means is selected to perform coding with image quality taken to be important, and the integer type wavelet conversion is selected to perform reduction of hardware, saving of power consumption or coding at a low bit-rate.

Regarding claim 14, the closest prior art [Taniguchi et al.] fails to teaches an image decoding device into which a coded bit stream generated by a coding device comprising integer type wavelet conversion means and/or fixed-point type wavelet conversion means is inputted, the image decoding device comprising: means for detecting whether wavelet conversion performed by the coding device is of an integer type or a mixed-point type, from the inputted coded bit stream, integer type wavelet reverse conversion means for decoding the coded bit stream converted by the integer type wavelet conversion means; and means for controlling decoding operation to be paused if the inputted coded bit stream is of the fixed-point type.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M Dang whose telephone number is 703-305-1464. The examiner can normally be reached on Monday to Friday from 5:30AM to 2:00PM..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 703-308-5246. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dmd 2/05

> Duy M. Dang Patent Examiner